

THAT WHICH IS CLAIMED IS:

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1. A backerboard sheet for moist areas and comprising:

a core having opposing first and second major surfaces;

5 said core comprising aerated concrete; and
at least one moisture-resistant face layer on
at least one of the first and second major surfaces of
said core.

2. A backerboard sheet according to Claim 1
wherein said at least one moisture-resistant face layer
comprises fibers.

3. A backerboard sheet according to Claim 2
wherein said fibers are arranged in a woven mesh.

4. A backerboard sheet according to Claim 2
wherein said fibers comprise at least one of glass,
plastic, and metal.

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5. A backerboard sheet according to Claim 2
wherein said at least one moisture-resistant face layer
further comprises a moisture-resistant material
incorporating said fibers.

6. A backerboard sheet according to Claim 1
wherein said at least one moisture-resistant face layer
comprises first and second moisture-resistant face
layers on respective first and second major surfaces of
5 said core.

7. A backerboard sheet according to Claim 1
wherein said core has a generally rectangular shape

defining a pair of opposing side edges and a pair of opposing end edges.

8. A backerboard sheet according to Claim 7 wherein the first major surface has beveled portions adjacent respective opposing side edges.

Spt 3
~~9. A backerboard sheet according to Claim 7 wherein said at least one moisture-resistant face layer extends around the opposing side edges.~~

10. A backerboard sheet according to Claim 9 wherein the opposing end edges of said core are exposed.

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~~11. A backerboard sheet according to Claim 1 wherein said core comprises aerated concrete having a density in a range of about 25 to 40 lbs./ft.³~~

12. A backerboard sheet according to Claim 1 wherein said core has a thickness in a range of about 1/4 to 1 inch.

13. A backerboard sheet according to Claim 1 wherein said core further comprises reinforcing fibers in said aerated concrete.

14. A backerboard sheet according to Claim 1 wherein said core has a generally rectangular shape having a width in a range of about three to five feet.

15. A backerboard sheet according to Claim 1 wherein said core has a generally rectangular shape with a length in a range of about five to sixteen feet.

16. A backerboard sheet according to Claim 1 wherein said core comprises:

first and second portions aligned in end-to-end relation at respective opposing edges thereof; and

5 an adhesive layer joining the opposing edges of said first and second portions together.

17. A backerboard sheet for moist areas and comprising:

a core having opposing first and second major surfaces;

5 said core comprising aerated concrete; and

at least one moisture-resistant face layer on at least one of the first and second major surfaces of said core, said at least one moisture-resistant face layer comprising a woven fiber mesh.

18. A backerboard sheet according to Claim 17 wherein said woven fiber mesh comprises at least one of glass, plastic, and metal fibers.

19. A backerboard sheet according to Claim 17 wherein said at least one moisture-resistant face layer further comprises a moisture-resistant material incorporating said woven fiber mesh.

20. A backerboard sheet according to Claim 17 wherein said at least one moisture-resistant face layer comprises first and second face moisture-resistant layers on respective first and second major
5 surfaces of said core.

21. A backerboard sheet according to Claim 17 wherein said core has a generally rectangular shape

defining a pair of opposing side edges and a pair of opposing end edges.

22. A backerboard sheet according to Claim 21 wherein the first major surface has beveled portions adjacent respective opposing side edges.

23. A backerboard sheet according to Claim 21 wherein said at least one moisture-resistant face layer extends around the opposing side edges.

24. A backerboard sheet according to Claim 21 wherein the opposing end edges of said core are exposed.

25. A backerboard sheet according to Claim 17 wherein said core comprises aerated concrete having a density in a range of about 25 to 40 lbs./ft.³

26. A backerboard sheet according to Claim 17 wherein said core has a thickness in a range of about 1/4 to 1 inch.

27. A backerboard sheet according to Claim 17 wherein said core further comprises reinforcing fibers in said aerated concrete.

28. A backerboard sheet according to Claim 17 wherein said core comprises:

first and second portions aligned in end-to-end relation at respective opposing edges thereof; and

5 an adhesive layer joining the opposing edges of said first and second portions together.

29. A backerboard sheet for moist areas and comprising:

a core having opposing first and second major surfaces;

5 said core comprising aerated concrete; and
first and second moisture-resistant face
layers on respective first and second major surfaces of
said core, each of said first and second moisture-
resistant face layers comprising a woven fiber mesh and
10 a moisture-resistant material incorporating said woven
fiber mesh.

30. A backerboard sheet according to Claim
29 wherein said woven fiber mesh comprises at least one
of glass, plastic, and metal fibers.

31. A backerboard sheet according to Claim
29 wherein said core has a generally rectangular shape
defining a pair of opposing side edges and a pair of
opposing end edges.

32. A backerboard sheet according to Claim
31 wherein the first major surface has beveled portions
adjacent respective opposing side edges.

33. A backerboard sheet according to Claim
31 wherein the first moisture-resistant face layer
extends around the opposing side edges.

34. A backerboard sheet according to Claim
31 wherein the opposing end edges of said core are
exposed.

35. A backerboard sheet according to Claim 29 wherein said core comprises aerated concrete having a density in a range of about 25 to 40 lbs./ft.³

36. A backerboard sheet according to Claim 29 wherein said core has a thickness in a range of about 1/4 to 1 inch.

37. A backerboard sheet according to Claim 29 wherein said core further comprises reinforcing fibers in said aerated concrete.

38. A backerboard sheet according to Claim 29 wherein said core comprises:

first and second portions aligned in end-to-end relation at respective opposing edges thereof; and
5 an adhesive layer joining the opposing edges of said first and second portions together.

39. A wall structure for moist areas comprising:

a frame; and

at least one backerboard sheet secured to
5 said frame, said at least one backerboard sheet comprising

a core having opposing first and second major surfaces, said core comprising aerated concrete; and

10 at least one moisture-resistant face layer on at least one of the first and second major surfaces of said core.

40. A wall structure according to Claim 39 further comprising a plurality of tiles secured to said at least one backerboard sheet.

41. A wall structure according to Claim 39 wherein said at least one moisture-resistant face layer comprises fibers.

42. A wall structure according to Claim 41 wherein said fibers are arranged in a woven mesh.

43. A wall structure according to Claim 41 wherein said fibers comprise at least one of glass, plastic, and metal.

44. A wall structure according to Claim 41 wherein said at least one moisture-resistant face layer further comprises a moisture-resistant material incorporating said fibers.

45. A wall structure according to Claim 39 wherein said at least one moisture-resistant face layer comprises first and second moisture-resistant face layers on respective first and second major surfaces of said core.
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46. A wall structure according to Claim 39 wherein said core has a generally rectangular shape defining a pair of opposing side edges and a pair of opposing end edges..

47. A wall structure according to Claim 46 wherein the first major surface has beveled portions adjacent respective opposing side edges.

48. A wall structure according to Claim 46 wherein said at least one moisture-resistant face layer extends around the opposing side edges.

49. A wall structure according to Claim 46 wherein the opposing end edges of said core are exposed.

50. A wall structure according to Claim 39 wherein said core comprises aerated concrete having a density in a range of about 25 to 40 lbs./ft.

51. A wall structure according to Claim 39 wherein said core has a thickness in a range of about 1/4 to 1 inch.

52. A wall structure according to Claim 39 wherein said core further comprises reinforcing fibers in said aerated concrete.

53. A wall structure according to Claim 39 wherein said core comprises:

first and second portions aligned in end-to-end relation at respective opposing edges thereof; and

5 an adhesive layer joining the opposing edges of said first and second portions together.

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